

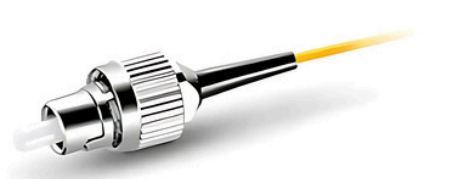
LC



SC



ST



FC

## PIGTAIL CONNECTOR

### Product Overview

The FiberCore Pigtail Connector is a short optical fiber (usually 0.5–2 meters) with a factory-terminated and factory-polished connector on one end, while the other end is left as bare fiber. The bare side is fusion spliced to the field fiber, creating a permanent and reliable joint with minimal splice loss. Because the connector is factory-polished under controlled conditions, pigtails provide consistent low insertion loss and excellent return loss performance. They are widely used in optical distribution frames (ODFs), patch panels, and passive optical networks (PONs) where long-term reliability and high connection quality are required.

### Features

- Factory-terminated and factory-polished connector for consistent performance
- Available in standard lengths (0.5–2 meters) for flexible deployment
- Low insertion loss and high return loss for reliable signal transmission
- Bare fiber end designed for fusion splicing to field fiber
- Ensures permanent and stable joint with minimal splice loss
- Compatible with SC, LC, FC, and ST connector types
- Constructed with high-quality fiber for durability and long-term performance

### Applications

- Optical Distribution Frames (ODFs) and patch panels
- Fusion splicing in Fiber-to-the-Home (FTTH) and Fiber-to-the-Building (FTTB) networks
- Passive Optical Networks (PONs) and telecommunication systems
- Data centers and enterprise network infrastructure
- CATV and broadband distribution systems
- Fiber optic testing and maintenance setups



Want to know more about FiberCore?

For more information visit [www.fibercore-plus.com](http://www.fibercore-plus.com) or contact [sales@fibercore-plus.com](mailto:sales@fibercore-plus.com)

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## PIGTAIL CONNECTOR

### Technical Parameters

Specification	SC	LC	FC	ST	Parameter	Polishing Tech
<b>Ferrule Diameter</b>	2.5mm	1.25mm	2.5mm	2.5mm	Core Diameter	UPC
<b>Insertion Loss</b>	0.25 dB	0.1 dB	0.3 dB	0.2 dB	Cladding Diameter	APC
<b>Return Loss</b>	50 dB	60 dB	55 dB	40 dB	Wavelength	Zirconia
<b>Operating Temp.</b>	-40 to 75°C	-40 to 80°C	-20 to 70°C	-20 to 60°C	Buffer Diameter	Ceramic
<b>Mating Cycles</b>	1000	500	500	500	Jacket Material	LSZH
<b>Fiber Type</b>	OS2 9/125	OS2 9/125	OS2 9/125	OS2 9/125	Tensile Strength	PVC
<b>Typical Length</b>	1m	2m	3m	3m	Storage Temp	9

### Technical Performance

<b>Connector Type</b>	Pigtail Connector
<b>Insertion Loss (IL)</b>	≤ 0.15–0.25 dB (factory controlled)
<b>Return Loss (RL)</b>	UPC ≥ 55 dB, APC ≥ 60 dB
<b>Mechanical Durability</b>	≥ 500 cycles (connector side)

### Ordering Information

Description	Part No.
1M Pigtail 0.9mm SC/LC/ST/FC	FC-37-1M-P-xxx

*Note: Please ask the Sales Representative for the exact model, as there are different connector types and modes available.*



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